AMSH1 AMSH2 AMSH Rpn11 Jab1	THREFTITHVIVPKQSAG PDYCD MENVEELFNVQDQHDLLTLGHIETEPPQ TAFLS THREFTITHVIVPKQSAG PDYCD MENVEELFNVQDQHDLLTLGHIETEPPQ TAFLS MENLEFTITHVLIPKQSAG SDYCH TENEELFLI QDQQGLLTLGHIETEPPQ TAFLS TVRVI DVFAMPQSGTGVS VERVD PVFQAKMLDHLKQTG RPELMV VGMYES PGTGCMLS TMIIHDSFALFVEGTETRVN AQARAYEYMARYIEN AKQVGRLEN A IGMYES PGYGCMLS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AMSH1 AMSH2 AMSH Rpn11 Jab1	SVELHTHCSYQLMLPEAIAIVCSPKHKDTGIFRITNAGMLEVSACKKKGFHPH SVELHTHCSYQLMLPEAIAIVCSPKHKDTGIFRITNAGMLEVSACKKKGFHPH SVELHTHCSYQMMLPESVAIVCSPK FQETGFFKLTDHGLE EISSCRQKGFHPH GVEINTQQSFEALSERAVAVVVDPIQSVKGKVVIDAFRLI NAMMVLGHE PRQTTSNIGH GIEVSTQMINQQFQE PFVAVVIDPTRTISAGKVNIGAFRTY PKGYK PPDEG PSLYQ
AMSH1 AMSH2 AMSH Rpnli Jabl	TKEPRLFSICKHY-LVKDIKIIVLDLR
AMSH1 AMSH2 AMSH Rpn11 Jab1	L
AMSHI AMSH2 AMSH Rpn11 Jab1	LDTVVFK IKDKLFNQINIS

AMSH1		35
AMSH2	MOO PETUNGIKKI. AMPOHTOVGI.SPEERVRALSKIGCHITISEDITPRR	50
AMSH	WSDHGDVSIPPEDRVRALSOLGSAVEVNEDIPPRR	35
	*, ** ****, **; ******; **, ; ; , ***, ***	
AMSH1		85 100
YM2H3	YFRSGVEMERMAS VYLKE GHLENATVLYNKFITLIVEK LINHRDYQQC AV	85
amsh	YER SGVEI IRMAS IYSEE GNIEHAFILYNKYITLETEK LEKHRDYKSAVI	65
AMSH1	PEKODIHKKIKEI AFPRTDELKNDLIKKYNVEYQEYLQ SKNKYKAEILKK	135
AMSH2	DEVINITARY FROTE TONDE IN THE YNVEY DEVIN SKNKYKAE I LKK	150
AMSH	DER KINTERE KERT AUPKARETKARLIKR YTKEYTEYNEEKKKE AEELAKN	135
	***** *********** *** **	
AMSH1	LEHORLIE AERKRIAOMROOOLE SEQFLYFEDO LKKOE LARGOMRSOOTS	185
AMSH2	LEHORLIE AERKRIAOMROOQLE SEOFL FFEDOLKKOE LARGOMRSOOTS	200
AMSH	MAIQQELEKEKQRVAQQKQQQLEQEQTHAFEEMIRNQELEKERIKIVQEF	185
* .	1 xl ta alfalas. Lasasa asa asa tal ilisas i il s lutificamenterifica autifica ficili ma finali ma	
AMSH1	G-LSEQIDGSALSCESTHONNSLINV FADQPNKSDATNYASHSPPVNR	232
AMSH2	G_LSEDINGSALSCES-THONNSLINV FADOPNKSDATNYASHSPPVNR	247
AMSH	arunpataaptupntxxpstnvrppt.TvssiOPSDCHTTVRPAXPPVVDR	235
	# 1, 1, #, 3, 1, 1 1 , #, # 1 ## (# .11, # 12;	
AMSH1	ALTPARTLEAVON LOVEG LROVA LPED LOHK FLO LAESNIVRG I ETOGIL	282
AMSH2	A TOPPA NOT SANON TOVER TROUVE LPEDICHK FLOLARS NIVER LETTER IL	297
AMSH	SLK PGALSNESI PTIDGIRHVVVPGRLCPQTLQLASANTARGVETCGIL	285
	1年,方,方 ,	-
AMSH1	CGK LITHNE FTITHVIVPKQSAGPDYCDMENVEE LFNVQDQHDLLITLGWI	332
AMSH2	CGK LITHNE FTITHVIVPK OSAGPDYCDMENVEE LENVQ DQHDLLILGW LH	347
AMSH	CONTINUE TO THE THE THE PROPERTY OF THE PROPER	335
	*** (*******************************	
AMSH1	THPTOTAY LSSVELHTHC SYQUALFEAT ATVCS PKHEDTGIFR LITNAGAL	382
AMSH2	THE TOTAT LES VELHTHE SYNLMLFE ALAIVES PRHED TOLTRAGME	397
AMSH	TEPTOTAY LSSVELHTHC SYDMALPESVATVCS PRIOR TGFFR LIDEGLE	385
AMOR	**************************	
AMSH1	EVSACKKKGIHPHTKEPRLFSICKHVLVKDIKIIVLDLR	421
AMSH1	EVS ACKKROTHPHTKE PR LTS IQKFLSG I ISOTALEME PLK IGYGPNG FP	447
amsh	IIS SCROKGYHPH SKDPP LYCSC SHVT VVDRAVTITDLR	424
ANDA	*isisitasasattis *** ''t : * t *1	
AMSH1		
AMSH1	LLGISRSSSPSEQL 461	
AMSH2	DEGLESS START TO T	
ARDA		

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COP9_su5_Hs	VGRLENAIGWYHSHPGYGCWLSGIDVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLG
COP9 su5 Dm	VGRMEHAVGWYHSHPGYGCWLSGINVSTQMLNQTYQEPFVAIVVDPVRTVSAGKVCLG
COP9 su5 At	AGRLENVVGWYHSHPGYGCWLSGIDVSTQRLNQQHQEPFLAVVIDPTRTVSAGKVEIG
COP9 su5 Ce	EGRKEKVVGWYHSHPGYGCWLSGIDVSTQTLNQKFQEPWVAIVIDPLRTMSAGKVDIG
AF2198 Arcfu	LPIGMKVFGTVHSHPSPSCRPSEEDLSLFTRFGKYHIIVCYPYDENSWKCYNRKGEEV
PH0451 Pyrho	MPHDESIKGTFHSHPSPFPYPSEGDLMFFSKFGGIHIIAAFPYDEDSVKAFDSEGREV
TVN1035 Thevo	KPIDFSLVGSVHSHPSGITKPSDEDLRMFSLTGKIHIIVGYPYNLKDYSAYDRSGNKV
MTH971 Metth	LPPFTGAVGSVHSHPGPVNLPSAADLHFFSKNGLFHLIIAHPYTMETVAAYTRNGDPV
aq 1691 Aquae	ISKGMEIVGVYHSHPDHPDRPSQFDLQRAFPDLSYIIFSVQKGKVASYRSWELKGDKF
RV1334 Myctu	EDADEVPVVIYHSHTATEAYPSRTDVKLATEPDAHYVLVSTRDPHRHELRSYRIVDGAVT
RadC Ecoli	IKINASALILAHNHPSGCAEPSKADKLITERIIKSCQFMDLRVLDHIVIGRGEYVSFA
	IIIIIIIIIIIIIHSHP!!!!S !'D

COP9 su5 Hs	VGRLENAIGWYHSHPGYGCWLSGIDVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLG
COP9 su5 Dm	VGRMEHAVGWYHSHPGYGCWLSGINVSTQMLNQTYQEPFVAIVVDPVRTVSAGKVCLG
COP9 su5 At	AGRLENVVGWYHSHPGYGCWLSGIDVSTQRLNQQHQEPFLAVVIDPTRTVSAGKVBIG
COP9 su5 Ce	EGRKEKVVGWYHSHPGYGCWLSGIDVSTQTLNQKFQEPWVAIVIDPLRTMSAGKVDIG
Padl Dm	TGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVA - VVVDPIQSVKG-KVVID
Padl Hs	TGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQSVKG-KVVID
Sksl Dd	TGRDEIVIGWYHSHPGFGCWLSSVDVNTQQSFEQLQSRAVAVVVDPLQSVRG-KVVID
Pad1_Sc	TGRDQMVVGWYHSHPGFGCWLSSVDVNTQKSFEQLNSRAVAVVVDPIQSVKG-KVVID
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